



E STEEL SDN BHD (891338-A)

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HARDOX 400 is an abrasion resistant plate with a hardness of 400 HBW, intended for applications where demands are imposed on abrasion resistance in combination with good cold bending properties. HARDOX 400 offers very good weldability.

Applications Crushers, sieves, feeders, measuring pockets, skips, cutting edges, conveyors, buckets, knives, gears, sprockets, dumptrucks, loaders, industrial trucks, lorries, bulldozers, excavators, slurry pipe systems, screw conveyors, presses etc.

Hardness : 370-430 HBW

Mechanical Properties

Yield strength : 1000MPa

Tensile strength : 1250MPa

Elongation : 10%

Impact Properties

Testing temperature :- 40 °C

Impact energy Charpy-V, longitudinal : 45(J)

Heat Treatment and Fabrication

HARDOX 400 has obtained its mechanical properties by quenching and when necessary by means of subsequent tempering. The properties of the delivery condition can not be retained after exposure to service or preheating temperatures in excess of 250oC (480o F).

HARDOX 400 is not intended for further heat treatment. For information concerning welding and fabrication, see our brochures on www.hardox.com or consult our Technical Customer Service.

Appropriate health and safety precautions must be taken when welding, cutting, grinding or otherwise working on the product. Grinding, especially of primer coated plates, may produce dust with high particle concentration.

Chemical Properties

Grade	C max	Mn max	P max	S max	Si max	Cr max	Ni max	Mo max	B max	V	Other Element
Hardox 400	0.20	1.60	0.025	-	0.70	0.80	1.00	0.80	0.005	-	
Sumihard k400	0.17	1.25	0.012	0.003	0.29	0.02	0.02	0.10	0.001	-	
Welhard 400	0.22	2.00	0.250	0.01	0.55	1.20	-	0.60	0.005	-	Nb-.05
Fora 400	0.20	1.60	0.020	0.003	0.01	1.00	0.50	0.20	0.003	-	
Raex 400	0.20	1.70	0.030	0.015	0.70	1.50	0.40	0.50	0.004	-	Ai=.060 max
Xar 400	0.28	1.50	0.025	0.01	0.80	1.00	0.50	0.50	0.005		
Brinar 400	0.18	1.50	0.015	0.005	0.30	1.55	1.20	0.60	0.005	-	Ai=.015 max
Dillidur 400	0.20	1.80	0.025	0.01	0.50	1.50	0.80	0.50	0.005	0.08	Nb=.05 max
JFE EH360LE	0.17	1.60	0.020	0.01	0.55	0.40	-	0.35	0.004	0.02	
Quard 400	0.16	1.60	0.025	0.01	0.70	0.50	0.25	0.25	0.005	-	